WHAT IS CLAIMED IS:

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setting a first average of a minimal value of the average and a predefined value and a second average of a maximal value of the average and the predefined value, said predefined value being between the minimal value and the maximal value, and obtaining a first identification level corresponding to the first average and a second identification level corresponding to the second average; and

computing an optimal identification level based on the first identification level and the second identification level and supplying the optimal identification level to the limiter amplifier.

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2. The method as claimed in claim 1, 35 wherein when the minimal value and the maximal value are set as 0% and 100%, respectively, the first average and the second average are set as about 25% and about 75%, respectively.

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3. The method as claimed in claim 1, wherein the optimal identification level is set as a level of 30% through 40% in a level range between the first identification level and the second identification level.

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4. A method of controlling an identification level for an optical receiver wherein the optical receiver converts an optical signal from an optical fiber into an electric signal, uses a

limiter amplifier to amplify the electric signal, - 20 and reproduces data, the method comprising steps of:

changing an identification level supplied to a monitoring limiter amplifier from a lower bound to an upper bound thereof, said monitoring limiter amplifier configured to have a feature similar to

25 the limiter amplifier and receiving the electric signal, and storing an average of an output of the monitoring limiter amplifier together with the identification level;

setting a first average of a minimal value of the average and a predefined value and a second average of a maximal value of the average and the predefined value, said predefined value being between the minimal value and the maximal value, and obtaining a first identification level corresponding

35 to the first average and a second identification level corresponding to the second average; and computing an optimal identification level

based on the first identification level and the second identification level and supplying the optimal identification level to the limiter amplifier.

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5. The method as claimed in claim 4,
wherein when the minimal value and the maximal value
are set as 0% and 100%, respectively, the first
average and the second average are set as about 25%
and about 75%, respectively.

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6. The method as claimed in claim 4, wherein the optimal identification level is set as a level of 30% through 40% in a level range between the first identification level and the second identification level.

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7. An optical receiver for converting an optical signal from an optical fiber into an electric signal, using a limiter amplifier to amplify the electric signal, and reproducing data, comprising:

a change part changing an identification level supplied to the limiter amplifier from a lower bound to an upper bound thereof;

a storage part storing an average of an output of the limiter amplifier together with the identification level; and

a computation part setting a first average of a minimal value of the average and a predefined value and a second average of a maximal value of the average and the predefined value, said predefined value being between the minimal value and the maximal value, obtaining a first identification level corresponding to the first average and a second identification level corresponding to the second average, computing an optimal identification level based on the first identification level and the second identification level, and supplying the optimal identification level to the limiter amplifier.

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8. The optical receiver as claimed in claim 7, wherein when the minimal value and the maximal value are set as 0% and 100%, respectively, the first average and the second average are set as about 25% and about 75%, respectively.

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9. The optical receiver as claimed in claim 7, wherein the optimal identification level is set as a level of 30% through 40% in a level range between the first identification level and the second identification level.

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10. An optical receiver for converting an optical signal from an optical fiber into an

electric signal, using a limiter amplifier to amplify the electric signal, and reproducing data, comprising:

a monitoring limiter amplifier configured to have a feature similar to the limiter amplifier and receiving the electric signal;

a change part changing an identification level supplied to the monitoring limiter amplifier from a lower bound to an upper bound thereof;

a storage part storing an average of an output of the monitoring limiter amplifier together with the identification level; and

a computation part setting a first average of a minimal value of the average and a predefined value and a second average of a maximal value of the average and the predefined value, said predefined value being between the minimal value and the maximal value, obtaining a first identification level corresponding to the first average and a second identification level corresponding to the second average, computing an optimal identification level based on the first identification level and the second identification level, and supplying the optimal identification level to the limiter

11. The optical receiver as claimed in claim 10, wherein when the minimal value and the maximal value are set as 0% and 100%, respectively, the first average and the second average are set as about 25% and about 75%, respectively.

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amplifier.

12. The optical receiver as claimed in claim 10, wherein the optimal identification level is set as a level of 30% through 40% in a level range between the first identification level and the second identification level.